

REMARKS

Claims 1-27 are pending. Claim 1 has been amended for clarity with this response. Reconsideration of the application is respectfully requested based on the following remarks.

I. REJECTION OF CLAIMS 1-8 and 13-27 UNDER 35 U.S.C. § 102(e)

Claims 1-8 and 13-27 were rejected under 35 U.S.C. § 102(e), as being anticipated by U.S. Publication No. US 2004/00208314 A1 Patariu et al. (Patariu). Withdrawal of the rejection is respectfully requested for at least the following reasons.

Claim 1 has been amended for improved clarity.

Regarding Claim 1, structurally, Patariu (US Pub. US 2004/00208314 A1) does not utilize a data select switch (e.g., 24 of Fig. 1F of the present invention), that is adapted to selectively couple one of the data input (e.g., 26 of Fig. 1F) and the intermediate result to the data input node (e.g., 25 of Fig. 1F) of the single DES engine (e.g., 21 of Fig. 1F). Instead, items 210 and 212 of Fig. 2 of Patariu are cited as performing this equivalence. However, Mux 210 is not connected or adapted to couple one of the data input and the intermediate result to the data input node of the engine (DES or 3DES), and Key & Encryption/Decryption Select 212 is not connected or coupled to the data output of the single DES engine (single DES or 3DES) as required of the data select switch of claim 1. Instead, Key & Encryption/Decryption Select 212 of Patariu is adapted to couple input data to the keys input of the 3DES block (208 of Fig. 2).

In addition, Patariu does not describe or discuss a single DES engine (e.g., 5a of Fig. 1E or 21 of Fig. 1F) and a select switch coupled to the data output and the data input node as recited in claim 1 of the present invention, which provides feedback therebetween. Instead, Patariu describes and illustrates a complete 3DES functional block (112 of Fig. 1 and 208 of Fig. 2) without this single DES engine feedback. Thus, the structure of Patariu appears to make no provision to process the intermediate result

data from the **data output** during a second and third DES processing operation as recited in claim 1.

Regarding Claims 25-27, Patariu does not describe or discuss obtaining a first **intermediate result data** from the first DES processing operation at a data output, the intermediate result being feedback coupled to a feed back input of the data select switch; nor does Patariu discuss obtaining a **second intermediate result** from the second DES processing operation at the data output..., the **second intermediate result** being feedback coupled to a feedback input of the data select switch, and third DES processing the second intermediate result data as recited by claims 25-27.

Accordingly, not all features of independent claims 1, 25 and 27 are disclosed by Patariu, and withdrawal of the rejection is respectfully requested.

Regarding claim 8, no discussion can be found in par. 0032 of Patariu of the 3DES processing is completed in three single DES processing operations.

Regarding claim 19, Patariu does not discuss a network interface device comprising a **media access control system**, and a security processing circuit comprising a **single DES engine** operable to perform 3DES processing by selectively feeding back intermediate data results to an input thereof...

Regarding claim 23, Patariu does not discuss transferring data utilizing a **media access control system** or performing security processing using a **single DES engine**.

Accordingly, not all features of claim 8 and independent claims 19 and 23 are disclosed by Patariu, and withdrawal of the rejection is respectfully requested.

II. CONCLUSION

For at least the above reasons, the claims currently under consideration are believed to be in condition for allowance.

Should the Examiner feel that a telephone interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.

Should any fees be due as a result of the filing of this response, the
Commissioner is hereby authorized to charge the Deposit Account Number 50-1733,
AMDP783US.

Respectfully submitted,
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